

ABSTRACT

Methods and apparatus are provided for reducing frame violations in a stereoscopic display. A stereoscopic display system for presenting a stereoscopic image to a user suitably includes one or more cameras, each providing a video image, and a video processor. A stereoscopic display includes a left module and a right module, with each module having an eyepiece and a display panel with at least one aperture located therebetween. The stereoscopic display is configured to produce the stereoscopic image on the display panels as a function of image data received from the video processor, with the apertures forming a window around at least a portion of the perimeter of the display to thereby provide a visual reference point to the user that reduces or eliminates frame violations. The stereoscopic display system may be used during aerial refueling operations, or in any other display environment.